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TITLE: PORTABLE BUSH CUTTER  
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ABSTRACT:

PROBLEM TO BE SOLVED: To provide a portable bush cutter capable of improving handleability and reducing the fatigue of an operator.

SOLUTION: This portable bush cutter 2 is provided with a cutting blade device 8 on the front end of an operation rod 6 extended from a prime mover 4 to a front part and a bush cutting operation is performed while holding a pair of left and right grips 16 and 16' extended upwards provided on both left and right ends of a handle rod 14 crossed and arranged at the middle part of the operation rod 6 with both hands. In this case, the handle rod 14 is constituted of a first part 14' from a crossing part with the operation rod 6 to one grip 16 and a second part 14" from the operation rod 6 to the other grip 16' and the first part 14' is provided with a shape bent to a rear part after being extended over the almost horizontal width of the body of the operator.

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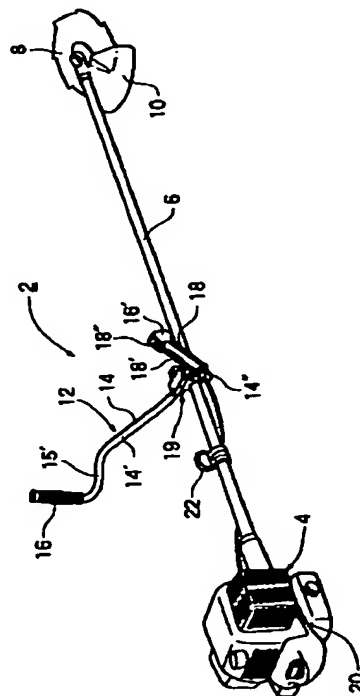
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(54)【発明の名称】 携帯用刈払機

(57)【要約】

【課題】より使い勝手が良く、また、作業者の疲労度を軽減することのできる携帯用刈払機を提供すること。

【解決手段】原動機(4)から前方に向けて延びる操作杆(6)の前端に刈刃装置(8)を有し、前記操作杆(6)の途中部分で交差して配置されたハンドル杆(14)の左右両端に設けられた、上方に向けて延びる左右一対のグリップ(16、16')を両手で持ちながら刈払作業を行う携帯用刈払機(2)において、前記ハンドル杆(14)が、前記操作杆(6)との交差部分から前記一方のグリップ(16)に至る第1部分(14')と、前記操作杆(6)から前記他方のグリップ(16')に至る第2部分(14'')とで構成され、前記第1部分(14')は、作業者の身体(17)のほぼ横幅にわたって延びた後に、後方に向けて屈曲した形状を有すること、を特徴とする携帯用刈払機。



L Number	Hits	Search Text	DB	Time stamp
1	30964	bush adj cut\$3 and handle and grips and (bar or pipe)	USPAT; US-PGPUB	2003/10/20 09:30
2	101847	bush adj cut\$3 and handle and grips and (bar or pipe)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/20 09:34
3	6	(bush adj cut\$4) and handle and grips and (bar or pipe)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/20 09:51
4	2	6176016.URPN.	USPAT	2003/10/20 09:38
5	4	("6021630"   "6056668"   "6176016"   "6196082").PN.	USPAT	2003/10/20 09:43
6	3	6056668.URPN.	USPAT	2003/10/20 09:45
8	8	("4288171"   "5167353"   "5678458"   "5881606"   "5941653"   "5970692"   "6056668"   "6305241").PN.	USPAT	2003/10/20 09:47
9	7	("2229056"   "3912056"   "4006528"   "4288171"   "4761939"   "4900183"   "5427465").PN.	USPAT	2003/10/20 09:49
10	7	("2229056"   "3912056"   "4006528"   "4288171"   "4761939"   "4900183"   "5427465").PN.	USPAT	2003/10/20 09:49
11	3	5427465.URPN.	USPAT	2003/10/20 09:49
12	11	(bush adj cut\$4) and handle and grips	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/20 10:29
14	14	((bush or vegetable) adj cut\$4) and handle and grips	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/20 11:06
15	2	((bush or vegetable) adj cut\$4) and handle and grip and ribs	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/20 11:07
16	1793	handle and grips and ribs	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/20 11:07
17	97	handle same grips same ribs	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/20 11:07
18	7	handle same grips same ribs and gravity	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/20 11:08
19	97	handle same grips same ribs	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/20 13:25
20	1	6370986.URPN.	USPAT	2003/10/20 11:10
21	12	("2754863"   "2960133"   "2983296"   "4166488"   "4738166"   "5280739"   "5299475"   "5443378"   "5588343"   "5601003"   "5657674"   "5704259").PN.	USPAT	2003/10/20 11:10

22	7	6035742.URPN.	USPAT	2003/10/20 11:14
23	140	hand same grips same ribs	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT	2003/10/20 13:41
24	19	("D274122"   "D299333"   "D411432"   "0450906"   "0570186"   "0578959"   "0605626"   "0612057"   "3205729"   "3405749"   "3982446"   "4158407"   "4535649"   "4716502"   "4893519"   "5247431"   "5263275"   "5507202"   "5584213").PN.	USPAT	2003/10/20 13:27
25	7	6035742.URPN.	USPAT	2003/10/20 13:30
26	13	5203517.URPN.	USPAT	2003/10/20 13:34
27	8	("1415678"   "4179081"   "4248392"   "4484717"   "4722493"   "4784348"   "4817762"   "4834312").PN.	USPAT	2003/10/20 13:35
28	12	handgrips same ribs	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT	2003/10/20 13:37
29	924	74/551.9	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT	2003/10/20 13:41
31	8	74/551.9.ccls. and hand same grip and hollow and rib	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT	2003/10/20 13:50
32	20	4972733.URPN.	USPAT	2003/10/20 13:44
33	7	("0599131"   "3301335"   "3881554"   "4217677"   "4401167"   "4471209"   "4768406").PN.	USPAT	2003/10/20 13:47
34	9	74/551.9.ccls. and hand and grip and hollow and rib	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT	2003/10/20 13:51
30	436	74/551.9.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT	2003/10/20 13:52
35	2	6276231.URPN.	USPAT	2003/10/20 13:54
36	12	("2222121"   "3189069"   "3344684"   "3633437"   "4768406"   "4900291"   "4969231"   "4972733"   "5197927"   "5355552"   "5564316"   "5584213").PN.	USPAT	2003/10/20 13:54
-	4	(bush adj cut\$3) and handle and grips and (bar or pipe)	USPAT; US-PGPUB USPAT	2003/03/03 18:48
-	4	("4226021"   "5718052"   "5842277"   "6021630").PN.	USPAT	2003/03/03 16:40
-	1000	handle and grips and (bar or pipe) and gravity	USPAT; US-PGPUB USPAT	2003/03/03 16:47
-	129	(handle and grips and (bar or pipe) and gravity ) and balance and central	USPAT; US-PGPUB USPAT	2003/03/03 16:51
-	1	((handle and grips and (bar or pipe) and gravity ) and balance and central) and escape same grip	USPAT; US-PGPUB USPAT	2003/03/03 16:48
-	242	(handle and grips and (bar or pipe) and gravity ) and balance	USPAT; US-PGPUB	2003/03/03 16:52

-	129	((handle and grips and (bar or pipe) and gravity ) and balance and central) and balance	USPAT; US-PGPUB	2003/03/03 16:52
-	42	((handle and grips and (bar or pipe) and gravity ) and balance and central) and balance and mass	USPAT; US-PGPUB	2003/10/14 16:54
-	390011	(center or middle) and (handle or grip or bar or pipe)	USPAT; US-PGPUB	2003/03/03 18:31
-	386031	(center or gravity) and (handle or grip or bar or pipe)	USPAT; US-PGPUB	2003/03/03 18:32
-	110165	(center or gravity) same (handle or grip or bar or pipe)	USPAT; US-PGPUB	2003/03/03 18:32
-	110165	(center or gravity) same (handle or grip or bar or pipe)	USPAT; US-PGPUB	2003/03/03 18:48
-	12	((center or gravity) same (handle or grip or bar or pipe) ) and balance and handle adj mass	USPAT; US-PGPUB	2003/03/03 18:39
-	12	((center or gravity) same (handle or grip or bar or pipe) ) and balance and handle adj mass	USPAT; US-PGPUB	2003/03/03 18:40
-	6	(handle or bar) same gravity same throttle same grip	USPAT; US-PGPUB	2003/03/03 18:43
-	6	((bush adj cut\$3) ) and(center or gravity) same (handle or grip or bar or pipe)	USPAT; US-PGPUB	2003/03/03 18:50
-	48	((bush adj cut\$3) ) and(handle or grip or bar or pipe)	USPAT; US-PGPUB	2003/03/03 19:00
-	4	("4226021"   "5718052"   "5842277"   "6021630").PN.	USPAT	2003/03/03 18:57
-	89	(bush adj cut\$3)	USPAT; US-PGPUB	2003/03/03 19:16
-	221761	gravity	USPAT; US-PGPUB	2003/03/03 19:16
-	40	central adj gravity	USPAT; US-PGPUB	2003/03/03 19:17
-	7	central adj gravity and handle	USPAT; US-PGPUB	2003/03/03 19:21
-	262	((central or center) adj gravity) same handle same grip	USPAT; US-PGPUB	2003/03/03 19:44
-	8566	((central or center) adj gravity) same handle same grip) and vibrat\$3 same as bar same mass	USPAT; US-PGPUB	2003/03/03 19:23
-	8	((central or center) adj gravity) same handle same grip) and vibrat\$3 same mass	USPAT; US-PGPUB	2003/03/03 19:36
-	21	((central or center) adj gravity) same handle same grip) and vibrat\$3 and mass	USPAT; US-PGPUB	2003/03/03 19:36
-	6	5645370.URPN.	USPAT	2003/03/03 19:40
-	6	5645370.URPN.	USPAT	2003/03/03 19:42
-	8	("3308728"   "3538821"   "3856426"   "4014620"   "4186197"   "4557336"   "4895478"   "5340233").PN.	USPAT	2003/03/03 19:42
-	21	((central or center) adj gravity) same handle same grip) and throttle	USPAT; US-PGPUB	2003/03/03 19:56
-	2445	(handle or bar) and grip and ((center or central) adj gravity)	USPAT; US-PGPUB	2003/03/03 19:58
-	909	(handle or bar) and grips and ((center or central) adj gravity)	USPAT; US-PGPUB	2003/03/03 19:58
-	46	(handle or bar) same grips same ((center or central) adj gravity)	USPAT; US-PGPUB	2003/03/03 19:58
-	212	30/226	USPAT; US-PGPUB	2003/03/04 10:51
-	5895	30/226 and bush adj cut\$3 and handle and grips	USPAT; US-PGPUB	2003/03/04 10:52
-	2	30/226 and (bush adj cut\$3) same handle same grip	USPAT; US-PGPUB	2003/03/04 10:53
-	539	30/90	USPAT; US-PGPUB	2003/03/04 10:53
-	3	30/90 and (bush adj cut\$3) same handle same grip	USPAT; US-PGPUB	2003/03/04 10:54

-	450	30/216	USPAT; US-PGPUB	2003/03/04 10:54
-	16	30/216 and (bush adhj cut\$3) same handle same grip	USPAT; US-PGPUB	2003/03/04 10:54
-	1213	56/12.7	USPAT; US-PGPUB	2003/03/04 10:54
-	36	56/12.7 and (bush adhj cut\$3) same handle same grip	USPAT; US-PGPUB	2003/03/04 10:55
-	89	30/296	USPAT; US-PGPUB	2003/03/04 10:55
-	6	30/296 and (bush adhj cut\$3) same handle same grip	USPAT; US-PGPUB	2003/03/04 10:55
-	486	56/11.3	USPAT; US-PGPUB	2003/03/04 10:55
-	23	56/11.3 and (bush adhj cut\$3) same handle same grip	USPAT; US-PGPUB	2003/03/04 10:55
-	16	handle same grips same (bar or pipe) same gravity	USPAT; US-PGPUB	2003/10/14 17:06
-	97	handle same grips same gravity	USPAT; US-PGPUB	2003/10/14 17:13
-	424	30/226,90,216,296.ccls.	USPAT; US-PGPUB	2003/10/14 17:11
-	452	30/226,90,216,296.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/14 17:11
-	921	56/12.7,11.3.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/14 17:11
-	1036	30/276,296r.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/14 17:12
-	3	30/276,296r.ccls. and handle same grips same gravity	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/14 17:13
-	4	56/12.7,11.3.ccls. and handle same grips same gravity	USPAT; US-PGPUB	2003/10/14 17:14
-	8	4282652.URPN.	USPAT	2003/10/14 17:15
-	163	294/172.ccls.	USPAT; US-PGPUB	2003/10/16 14:13
-	40448	16/\$.ccls.	USPAT; US-PGPUB	2003/10/16 14:14
-	34456	294/\$.ccls.	USPAT; US-PGPUB	2003/10/16 14:14
-	29	294/\$.ccls. and handle and grips and (bar or pipe) and gravity	USPAT; US-PGPUB	2003/10/16 14:15
-	9	16/\$.ccls. and handle and grips and (bar or pipe) and gravity	USPAT; US-PGPUB	2003/10/16 14:23